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1. An antisense compound having an uncharged morpholino backbone and a base sequence between 12 and 25 nucleotide bases in length which is complementary to a target region of a selected preprocessed mRNA coding for a protein selected from the group consisting of *myc*, *myb*, *rel*, *fos*, *jun*, abl, bcl, p53, an integrin, a cathedrin, a telomerase, a cytokine, a kinase, a receptor protein, hCG, HIV rev, human papilloma virus, and human parvovirus B19,

where the 5' end of the target region is 1-25 bases downstream of a normal splice acceptor site in said preprocessed mRNA.

- 2. The compound of claim 1, having intersubunit linkages selected from the group consisting of the structures presented in Figs. 2AA-2EE.
- 3. The compound of claim 2, wherein the linkage is a phosphorodiamidate linkage as represented at Figure 2B-B, where X=NH₂, NHR, or NRR', Y=O, and Z=O, or where X=OR, Y=NH or NR', and Z=O, and R and R' are groups which do not interfere with target binding.
- 4. The compound of claim 3, wherein R and R' are moieties independently selected from alkyl, polyalkyleneoxy, and a combination thereof, which may be substituted with one or more groups selected from hydroxy, alkoxy, amino, alkylamino, thiol, alkanethiol, halogen, oxo, carboxylic acid, carboxylic ester, and inorganic ester.
- 5. The compound of claim 4, wherein each said moiety R and R', independent of substitution, is from 1 to 6 atoms long.
- 6. The compound of claim 3, wherein NRR' represents a nitrogen heterocycle having 5-7 ring atoms selected from nitrogen, carbon, oxygen, and sulfur, and having at least as many carbon ring atoms as non-carbon ring atoms.
- 7. The compound of claim 6, wherein the 5' end of the target region is 10-15 bases downstream of a normal splice acceptor site.
 - 8. The compound of claim 1, wherein the selected protein is human *c-myc*.
- 9. The compound of claim 8, wherein the base sequence is selected from the group consisting of SEQ ID NOs: 16 through 32.

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- 10. The compound of claim 9, wherein the base sequence is SEQ ID NO: 25.
- 11. The compound of claim 8, wherein the base sequence is a contiguous 18- to 20-nucleotide sequence selected from SEQ ID NO: 34.
 - 12. The compound of claim 11, wherein the base sequence is SEQ ID NO: 33.
- 13. The compound of claim 1, wherein the selected protein is human androgen receptor, and the base sequence is a contiguous 18- to 20-nucleotide sequence selected from SEQ ID NO: 9 or SEQ ID NO: 13.
- 14. The compound of claim 13, wherein the base sequence is SEQ ID NO: 8 or SEQ ID NO: 12.
- 15. The compound of claim 1, wherein the selected protein is HCG- β subunit, and the base sequence is a contiguous 18- to 20-nucleotide sequence selected from SEQ ID NO: 15.
 - 16. The compound of claim 15, wherein the base sequence is SEQ ID NO: 14.
- 17. The compound of claim 1, wherein the selected protein is human p53, and the base sequence is a contiguous 18- to 20-nucleotide sequence selected from SEQ ID NO: 36.
 - 18. The compound of claim 17, wherein the base sequence is SEQ ID NO: 35.
- 19. The compound of claim 1, wherein the selected protein is human abl, and the base sequence is a contiguous 18- to 20-nucleotide sequence selected from SEQ ID NO: 38.
 - 20. The compound of claim 19, wherein the base sequence is SEQ ID NO: 37.
- 21. The compound of claim 1, wherein the selected protein is HIV-1 rev, and the base sequence is a contiguous 18- to 20-nucleotide sequence selected from SEQ ID NO: 41.
 - 22. The compound of claim 21, wherein the base sequence is SEQ ID NO: 40.
- 23. A method of inhibiting normal splicing of mRNA in a eukaryotic cell, comprising contacting the cell with an antisense compound having an uncharged morpholino backbone and a base sequence between 12 and 25 nucleotide bases in length which is

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complementary to a target region of a selected preprocessed mRNA coding for a selected protein; where the 5' end of the target region is 1-25 bases downstream of the a normal splice acceptor site in said preprocessed mRNA,

wherein the compound:

is taken up by the cell;

hybridizes to the target region of preprocessed mRNA in the cell, and

being so hybridized, prevents splicing at said normal acceptor splice site, such that the splice mechanism proceeds to a downstream splice acceptor sequence in the mRNA, producing a splice variant processed mRNA with a truncated coding sequence.

- 24. The method of claim 23, wherein the protein is selected from the group consisting of *myc*, *myb*, *rel*, *fos*, *jun*, abl, bcl, p53, an integrin, a cathedrin, a telomerase, hCG, a receptor protein, a cytokine, a kinase, HIV rev, human papilloma virus, and human parvovirus B19.
- 25. The method of claim 24, wherein the compound has intersubunit linkages selected from the group consisting of the structures presented in Figs. 2AA-2EE.
- 26. The method of claim 25, wherein the linkage is the phosphorodiamidate linkage represented at Figure 2B-B, where X=NH₂, NHR, or NRR', Y=O, and Z=O, or where X=OR, Y=NH or NR', and Z=O, and R and R' are groups which do not interfere with target binding.
- 27. The method of claim 26, wherein R and R' are moieties independently selected from alkyl, polyalkyleneoxy, and a combination thereof, which may be substituted with one or more groups selected from hydroxy, alkoxy, amino, alkylamino, thiol, alkanethiol, halogen, oxo, carboxylic acid, carboxylic ester, and inorganic ester.
- 28. The method of claim 27, wherein each said moiety R and R', independent of substitution, is from 1 to 12 atoms long.
- 29. The method of claim 26, wherein NRR' represents a nitrogen heterocycle having 5-7 ring atoms selected from nitrogen, carbon, oxygen, and sulfur, and having at least as many carbon ring atoms as non-carbon ring atoms.
- 30. The method of claim 23, wherein the 5' end of the target region is 10-15 bases downstream of a normal splice acceptor site.

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- 31. The method of claim 23, wherein said downstream splice acceptor site is a whole multiple of three bases downstream of the normal splice acceptor site, such that said splice variant mRNA has a coding sequence in frame with that of the processed mRNA when it is normally spliced.
- 32. The method of claim 23, wherein the selected protein has multiple distinct binding regions, and said truncated coding sequence codes for a variant protein in which a binding region is disabled.
 - 33. The method of claim 32, wherein said variant protein is a dominant negative protein.
- 34. The method of claim 33, wherein said selected protein is human *c-myc*, and said variant protein is an N-terminal truncated *c-myc* protein.
- 35. The method of claim 34, wherein the antisense compound has a base sequence selected from the group consisting of SEQ ID NOs: 16 through 32.
- 36. The method of claim 35, wherein the antisense compound has the base sequence SEQ ID NO: 25.
- 37. The method of claim 23, wherein the selected protein and corresponding antisense base sequence are selected from the group consisting of:
- (a) human chorionic gonadotropin, β subunit: a contiguous 18- to 20-nucleotide sequence selected from SEQ ID NO: 15;
- (b) human androgen receptor: a contiguous 18- to 20-nucleotide sequence selected from SEQ ID NO: 9 or SEQ ID NO: 13;
- (c) human *c-myc*: a contiguous 18- to 20-nucleotide sequence selected from SEQ ID NO: 34;
- (d) human p53: a contiguous 18- to 20-nucleotide sequence selected from SEQ ID NO: 36;
- (e) human abl: a contiguous 18- to 20-nucleotide sequence selected from SEQ ID NO: 38; and
- (f) HIV-1 rev: a contiguous 18- to 20-nucleotide sequence selected from SEQ ID NO: 41.

- 38. The method of claim 37, wherein the selected protein and corresponding antisense base sequence are selected from the group consisting of:
 - (a) human chorionic gonadotropin, β subunit: SEQ ID NO: 14;
 - (b) human androgen receptor: SEQ ID NO: 8 or SEQ ID NO: 12;
 - (c) human c-myc: SEQ ID NO: 33;
 - (d) human p53: SEQ ID NO: 35;
 - (e) human abl: SEQ ID NO: 37; and
 - (f) HIV-1 rev: SEQ ID NO: 40.